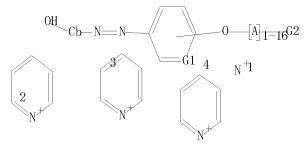
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FILE 'REGISTRY' ENTERED AT 10:11:17 ON 11 AUG 2008

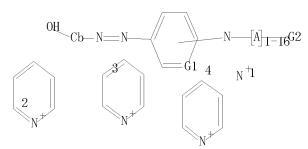
L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 0 S L1 0R L2
L4 55 S L1 0R L2 FULL

 \Rightarrow d que 14 stat L1 STR



G1 N, CH G2 [@1], [@2], [@3], [@4]

Structure attributes must be viewed using STN Express query preparation. L2 $$\operatorname{STR}$$



G1 N, CH G2 [@1], [@2], [@3], [@4]

Structure attributes must be viewed using STN Express query preparation. L4 $\,$ 55 SEA FILE=REGISTRY SSS FUL L1 OR L2 $\,$

100.0% PROCESSED 568964 ITERATIONS 55 ANSWERS SEARCH TIME: 00.00.07

=> s 14 and caplus/lc 57868715 CAPLUS/LC L5 29 L4 AND CAPLUS/LC

=> s 14 not 15 L6 26 L4 NOT L5

 \Rightarrow d 1-26 ide can

ANSWER 2 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN

804494-86-0 REGISTRY
ED Entered STN: 04 Oct 2005

N Ethanaminium, 2-[2-[2-[2-hydroxy-3-[(phenylamino)carbonyl]-1naphthalenyl]diazenyl]phenoxy]-N,N,N-trimethyl- (CA INDEX NAME)

Hanaminium, 2-[2-[[2-hydroxy-3-[(phenylamino)carbonyl]-1naphthalenyl]azo]phenoxy]-N,N,N-trimethyl- (9CI)

WF C28 H29 N4 00

SR CA

L6 ANSWER 1 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN

NN 864494-87-1 REGISTRY
ED Entered STN: 04 Oct 2005
CN Ethanaminium, 2-[[6-12-(2-hydroxy-1-naphthalenyl)diazenyl]-2DTHER CA INDEX NAMES:
CN Ethanaminium, 2-[[5-[(2-hydroxy-1-naphthalenyl)azo]-2-pyridinyl]oxy]-N, N, Ntrimethyl- (9C1)

FC C20 H23 N4 O2
CC CCM
SR CA

Me3*N-CH2-CH2-0

L6 ANSWER 3 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN

NN 864494-85-9 REGISTRY
ED Entered STN: 04 Oct 2005
CN Ethanaminium, 2-[2-[2-(2-hydroxy-7-methoxy-1-naphthalenyl)diazenyl]phenoxy
J-N, N, N-trimethyl- (CA INDEX NAME)

CN Ethanaminium, 2-[2-[(2-hydroxy-7-methoxy-1-naphthalenyl)azo]phenoxy]-N, N, N
trimethyl- (9CI)

MF C22 H26 N3 03
CR CA

L6 ANSWER 4 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN
RN 864494-84-8 REGISTRY
ED Entered STN: 04 Oct 2005
E Ethanaminium, 2-[2-[2-(2, 4-dihydroxy-1-naphthalenyl)diazenyl]phenoxy]N, N, N-trimethyl: (CA INDEX NAME)
COMBER CA INDEX NAMES:
CN Ethanaminium, 2-[2-[(2, 4-dihydroxy-1-naphthalenyl)azo]phenoxy]-N, N, Ntrimethyl: (9CI)
MF C21 H24 NS 03
CR CA

L6 ANSWER 5 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN

RN 864494-82-6 REGISTRY
ED Entered STN: 04 Oct 2005
CN Ethanaminium, 2-[2-[2-(2,7-dihydroxy-1-naphthalenyl)diazenyl]phenoxy]N.N. N-trimethyl- (CA INDEX NAME)
CN Ethanaminium, 2-[2-[(2,7-dihydroxy-1-naphthalenyl)azo]phenoxy]-N. N. N
trimethyl- (9CI)

MF C21 H24 N3 03
CR CA

L6 ANSWER 7 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN

RN 864465-24-7 REGISTRY
ED Entered STN: 04 Oct 2005
R Ethanaminium, 2-[[2-[2-(4-hydroxy-1-naphthalenyl)diazenyl]phenyl]methylaminol-N, N, N-trimethyl (CA INDEX NAME)

CN Ethanaminium, 2-[[2-[(4-hydroxy-1-naphthalenyl)azo]phenyl]methylaminol-N, N, N-trimethyl (9CI)

MF C22 H27 N4 0

SR CA

L6 ANSWER 6 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN
RN 86494-81-5 REGISTRY
ED Entered STN: 04 Oct 2005
OF Ethananinium, 2-[2-[2-(4-hydroxy-1-naphthalenyl)diazenyl]phenoxy]-N, N, Ntrimethyl- (CA INDEX NAME)
OTHER CA INDEX NAMES
ON Ethananinium, 2-[2-[(4-hydroxy-1-naphthalenyl)azo]phenoxy]-N, N, N-trimethyl(DMF C21 H24 NS 02
C1 C0M
SR CA

```
L6 ANSWER 9 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN

RN 864465-20-3 REGISTRY
ED Entered STN: 04 Oct 2005
CN Ethanaminium, 2-[[4-[2-(2-hydroxy-1-naphthaleny1)diazenyl]phenyl]methylami
nol-N, N, N-trimethyl (CA INDEX NAME)
CN Ethanaminium, 2-[[4-[(2-hydroxy-1-naphthalenyl)azo]phenyl]methylaminol-
N, N, N-trimethyl (9CI)
MF C22 H27 N4 0
CC2 H27 N4 0
CR CA
```

L6 ANSWER 10 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN

NN 864465-13-4 REGISTRY

ED Entered STN: 04 Oct 2005

N Fyridinium, 2-[2-[2-2-]-2-(2-hydroxy-1-naphthaleny1) diazenyl]phenoxy]ethyl]-1
methyl- (A INDEX NAME)

NF Pyridinium, 2-[2-[2-[(2-hydroxy-1-naphthaleny1) azo]phenoxy]ethyl]-1-methyl(9C1)

MF C24 H22 NS 02

C1 C0M

SR CA

L6 ANSWER 13 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN RN 802267-78-3 REGISTRY ED Entered STN: 23 Dec 2004

CN Bthanaminium, 2-[3-[2-[6-[(dimethylamino)sulfonyl]-2-hydroxy-1-naphthalenyl]diazenyl]phenoxy]-N, N, N-trimethyl- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Aumonium, [2-[m-[[6-(dimethylsulfamoyl)-2-hydroxy-1-naphthyl]azo]phenoxy]ethyl]trimethyl- (8CI)

MF C23 H29 N4 O4 S

CI C00M

L6 ANSWER 14 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN
RN 791002-09-0 REGISTRY
ED Entered STN: 30 Nov 2004
(N 1-Propanaminium, P-[2-[[4-[2-[3-(1H-benzimidazol-2-yl)-2-hydroxy-1-naphthalenyl]diazenyl]phenyl]amino]-2-oxoethyl]-3-(formylamino)-N, N-dimethyl - (CA INDEX NAMES:
(N 1-Propanaminium, N-[2-[[4-[[3-(1H-benzimidazol-2-yl)-2-hydroxy-1-naphthalenyl]azo]phenyl]amino]-2-oxoethyl]-3-(formylamino)-N, N-dimethyl-(SCI)
MF C31 H82 N7 03
CI C0M
SR CA

$$\begin{array}{c} \text{OHC-NH-} \text{ (CH2)} \\ 3^{-N^{+}} \text{ CH2-C-NH} \\ \text{Me} \end{array} \begin{array}{c} \text{OMe} \\ \text{OH} \\$$

L6 ANSWER 18 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN
RN 749788-49-6 REGISTRY
ED Entered STN: 22 Sep 2004
N 1-Propanaminium, 3-(formylamino)-N-[2-[[4-[2-[2-hydroxy-3-[[(2-methoxyphenyl)amino]-arbonyl]-l-maphthalenyl]diazenyl]phenyl]amino]-2methoxyphenyl]amino]carbonyl]-l-maphthalenyl]diazenyl]phenyl]amino]-2methoxyphenyl]amino]carbonyl]-l-maphthalenyl]azo]phenyl]amino]-2-oxoethyl]methoxyphenyl]amino]carbonyl]-l-maphthalenyl]azo]phenyl]amino]-2-oxoethyl]MF (Admitthyl- (GCI)
GZ H5 N6 06

L6 RN ED CN

ANSWER 19 0F 26 REGISTRY COPYRIGHT 2008 ACS on STN 107307-08-4 REGISTRY Entered STN: 28 Mar 1987 1-Propanaminium, 3-[3-[(5-chloro-2,4-dimethoxyphenyl)amino]carbonyl]-2-hydroxy-l-naphthalenyl]azo]phenoxy]-M, N-diethyl-2-hydroxy-N-methyl-(0SI) (CA INDEX NAME) C33 H38 C1 N4 06 COM (CAOLD

L6 RN ED CN

ANSWER 20 0F 26 REGISTRY COPYRIGHT 2008 ACS on STN 106194-18-7 REGISTRY Entered STN: 17 Jan 1987 Entered STN: 17 Jan 1987 1-Propanaminium, 3-[3-[(3-[(4-chloro-2,5-dimethoxyphenyl)amino]carbonyl]-2-hydroxy-1-nabhthalenyl]azo]phenoxy]-M, N-diethyl-2-hydroxy-N-methyl-(0SI) (CA INDEX NAME) C33 H38 C1 N4 06 COM CAOLD

L6 ANSWER 21 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN
RN 90229-22-4 REGISTRY
D Entreted STN: 16 Nov 1984
CN 1-Propanaminium, N,N-diethyl-2-hydroxy-3-[3-[[2-hydroxy-3-[(henyllamino)carbonyl]-1-naphthalenyl]azo]phenoxy]-N-methyl- (9CI) (CA INDEX NAME)
C31 H35 N4 04
CI C0M

6. ANSWER 22 0F 26 REGISTRY COPYRIGHT 2008 ACS on STN
N 89452-40-7 REGISTRY
DETECTED STN: 10 Nov 1984
N 1,4-Butanediaminium, N,N-bis[2-[4-[6-[4,6-bis[2-[(trimethylammonio)acety]]hydrazino]-1,5,5-triazin-2-yl]amino]-1-hydroxy-3sulf-02-ambthalenyl]azo]phenyl]amino-2-oxoethyl]-N,N,N',N-tetramethyl-,
bis(inner salt) (9Cl) (CA INDEX NAME)
COM
PAGE 1-A

O

PAGE 1-A

PAGE 1-B

O Me Me O OH

OH

OH

NE N

NH

NH

PAGE 1-C

L6 ANSWER 23 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN
8N 50668-41-7 REGISTRY
BD Eltered STN 18 Nev 1984
C1 Registry 18 10 Registry 1984
C1 Registry 1984
C2 Registry 1984
C2 H27 N4 09 S3
C1 C0M

HO3S SO3H N=N-Me
$$0=S-CH_2-CH_2-N^+Me_3$$

L6 ANSWER 24 0F 26 REGISTRY COPYRIGHT 2008 ACS on STN
8N 50668-40-6 REGISTRY
BD Entered STN: 16 Nov 1984
CO Ethananinium, 2-[[3-[(1-hydroxy-3,6-disulfo-2-mindex NaME)]] asolphenyl]methylamino]sulfonyl]-N, N, N-trimethyl- (9CI) (CA
MF CZ2 H27 N4 09 S3
CI COM

$$\begin{array}{c|c} \operatorname{HO_3S} & & & \operatorname{SO_3H} \\ & & & \operatorname{N--N-Me} \\ & & & \operatorname{OH} & & \operatorname{OH_2-CH_2-N^+Me_3} \end{array}$$

- L6 ANSWER 25 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 47799-87-1 REGISTRY
 ED Entered STN: 16 Nov 1984
 C Ethananinium, 2-[4-[[2-hydroxy-3-[(phenylamino)carbonyl]-1naphthalenyl]azo]-3-nitrophenoxy]-N,N,N-trimethyl- (9CI) (CA INDEX NAME)
 F C28 H28 N5 05
 CI COM

L6 ANSWER 26 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN

N 47488-90-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethanaminium, 2-[4-[(2-hydroxy-1-naphthalenyl)azo]phenoxy]-N, N, N-trimethyl(9C1) (CA INDEX NAME)
F C21 H24 N3 02
CI COM

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=> s 14 L7 19 L4

=> d 1-19 ibib iabs hitstr

Page 10 10/584, 955

L7 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1012907 CAPLUS

DOCUMENT NUMBER: 147:408200

THILE: 2007:1012907 CAPLUS

147:408200

Method for preparing diazo active dye and its combosition

NUMBER: 167:408200

Method for preparing diazo active dye and its combosition

NUMBER: 2007:1012907 CAPLUS

Method for preparing diazo active dye and its combosition

SUBJECT OF THE PROPERTY OF T

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE CN 101029184
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
GRAPHIC IMAGE: A 20070905 CN 2006-10049642 CN 2006-10049642 MARPAT 147:408204

ABSTRACT:
The title diazo active dye has a structure shown in formula I, while A is a substituted benzene ring or naphthalene ring. The substituent is one or more of OH, SOGH and NHR5. The active dye can be used for dyeing cellulose fibers alone or its composition is used for dyeing fibers containing N or hydroxyl into black. The active dye has the advantages of bright color, and good resistances against water, fiction and sweat stain.

No. 1 No. 2 No. 2

L7 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
11TILE:
1NVENTOR(S):
1NVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGIAGE:
PATENT ACC NIM COINT:
LANGIAGE:
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2008 AC

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATI	ENT I	NO.			KIN)	DATE			APPL	ICAT	ION	NO.		D	ATE	
WO :	2005	0853	62 62		A1		2005	0915		WO 2	2004-	EP14	189		2	0041	213
	Ψ:	AE, CN, GH, LR, NZ, TM,	AG, CO, GM, LS, OM, TN,	AL, CR, HR, LT, PG, TR,		CZ, ID, LV, PL,	IL, MA,	DM, IN, MD, RO,	DZ, IS, MG, RU,	EC, JP, MK, SC,	EE, KE, MN, SD,	EG, KG, MW, SE,	ES, KP, MX, SG,	FI, KR,	GB, KZ, NA, SL,	GD, LC, NI, SY,	CH, GE, LK, NO, TJ,
	RW:	BW, AZ, EE, RO, MR.	GH, BY, ES, SE, NE,	GM, KG, FI, SI,	KE, KZ, FR, SK, TD,	LS, MD, GB, TR, TG	MW, RU, GR, BF,	MZ, TJ, HU, BJ,	NA, TM, IE, CF,	SD, AT, IS, CG,	SL, BE, IT, CI,	SZ, BG, LT, CM,	TZ, CH, LU, GA,	UG, CY, MC, GN,	ZM, CZ, NL, GQ,	ZW, DE, PL, GW,	DK, PT, ML,
DE :	10200	0401	0999	,	A1		2005	0922		DE 2	2004-	1020	0401	0999	2	0040	306
EP :	17406	657			A1		2005 2007 2007	0110		EP 2	2004-	8038	18		2	0041	213
EP :		657			B1		2007	0912									
	R:	TC	TT	T T	T T	111	CZ, MC,	MI	DI	DT	RO	SE	ST	CK	TP		
BR :	20040	0186	13		A		2007	0502		BR 2	2004-	1861	3		2	0041	213
AT :	3730	51			Τ		2007	0915		AT 2	2004-	8038	18		2	0041	213
JP :	2007	5274	57		T		2007	0927		JP 2	2007-	5011	28		2	0041	213
ES :	2294	565			Т3		2008	0401		ES 2	2004-	8038	18		2	0041	213
US 2	20080	0167	453		A1		2007 2007 2007 2007 2008 2008	0710		US 2	3006-	5849	155	0000	. 2	0060	630
PRIORITY	APPI	LIN.	INFU							DE 2	3004-	T020	10401	0999	1 2	0040	306
OTHER SOU					MARI	PAT	143:	2879	07	WU 2	3004-	BF14	199	1	v 2	0041	∠13

ABSTRACT: Cationic naphthyldiazo dyes such as, an example I or II useful for non-oxidative dyeing keratin fibers, especially hair are prepared by catalytic hydriding of nitrocompounds followed by a standard diazotization in water and coupling with 1- or 2-naphthols. Thus, I prepared by reduction of 54 g N.N.N-trimethyl-2-(2-nitrophenoxy)ethanaminium methylsulfate with H2 (pressure 9 bar) in the presence of Pd/C catalyst followed by a standard diazotization in

L7 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

L7 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) water with NaNO2 and sulfamic acid and coupling with a soln. of 2-maphthol in i-PtOH was used in a compm. for dyeing hair contg. 4.0 g of decyl glucoside, 5.0 g of ethanol and 0.0025 mol of this dye in 100 g of water at pH 7.

S64465-12-3P
RE: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cationic naphthyldisac dwes useful for non-oxidative dyeing keratin fibers prepared by catalytic hydriding of nitrocompounds followed by a standard diazotization in water and coupling)
864465-12-3 CAPLUS
Ethanaminium, 2-[2-[2-[2-(4-hydroxy-1-naphthalenyl)diazenyl]phenoxy]-N, N, N-trimethyl-, chloride (1:1) (CA INDEX NAME)

● C1-

864465-14-EP 864465-15-EP RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses) (dark red dye: cationic naphthyldidazo dyes useful for non-oxidative dyeing keratin fibers prepared by catalytic hydriding of nitrocompounds followed by a standard diazotization in water and coupling 864465-14-5 (APLUS Pyridinium, 2-[2-[2-(2-hydroxy-1-naphthalenyl)diazenyl]phenoxy]ethyl]-1-methyl-, methyl sulfate (1:1) (CA INDEX NAME)

CM 1

CRN 864465-13-4 CMF C24 H22 N3 02

L7 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

CRN 21228-90-0 CMF C H3 04 S

Me-0-S03-

864465-15-6 CAPLUS Ethanaminium, 2-[2-[2-(2,7-dihydroxy-1-naphthalenyl)diazenyl]phenoxy]-N,N,N-trimethyl-, chloride (1:1) (CA INDEX NAME)

● C1 -

864465-17-8P 864465-26-9P RE: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses) (crange dye; cationic naphthyldiazo dyes useful for non-oxidative dyeing keratin fibers prepared by catalytic hydriding of nitrocompounds followed by a standard diazotization in water and coupling) 864465-17-8 CAPLUS Ethanaminum, 2-[2-P(2,4-dihydroxy-1-naphthalenyl)diazenyl]phenoxy]-N,N,N-trimethyl-, chloride (1:1) (CA INDEX NAME)

L7 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

CRN 21228-90-0 CMF C H3 04 S

Me-0-S03-

864465-23-6 CAPLUS Ethananinium, 2-[[2-[2-(2-hydroxy-1-naphthalenyl)diazenyl]phenyl]methylami no]-N,N,+trimethyl-, methyl sulfate (1:1) (CA INDEX NAME)

CM 1

CRN 864465-22-5 CMF C22 H27 N4 0

CM 2

CRN 21228-90-0 CMF C H3 04 S

Me-0-S03-

864465-25-8 CAPLUS Bthananinium, 2-[[2-[2-(4-hydroxy-1-naphthaleny1)diazeny1]pheny1]methylami no]-N,N,N-trimethyl-, methyl sulfate (1:1) (CA INDEX NAME)

L7 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

● C1⁻

864465-26-9 CAPLUS Bthanaminium, 2-[[5-[2-(2-hydroxy-1-naphthalenyl)diazenyl]-2-pyridinyl]oxy]-N,N,N-trimethyl-, chloride (1:1) (CA INDEX NAME)

• c1-

864465-21-4P 864465-23-6P 864465-25-8P RL: COS (Cosmetic use): IMF (Industrial manufacture); BIOL (Biological study): PREP (Preparation): USES (Uses) (red brown dwe; cationic naphthyldiazo dyes useful for non-oxidative dyeing keratin fibers prepared by catalytic hydriding of nitrocompounds followed by a standard diazotization in water and coupling) 864465-21-4 (APLUS Bthanaminum, 2-[[4-[2-(2-hydroxy-1-naphthalenyl)diazenyl]phenyl]methylami no]-N,N,N-trimethyl-, methyl sulfate (1:1) (CA INDEX NAME)

CM 1

CRN 864465-20-3 CMF C22 H27 N4 0

ANSWER 2 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CRN 864465-24-7 CMF C22 H27 N4 0

CM 2

CRN 21228-90-0 CMF C H3 04 S

Me-0-S03

864465-11-2P 864465-18-9P RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses) (red dye; cationic naphthyldiazo dyes useful for non-oxidative dyeing keratin fibers prepared by catalytic hydriding of nitrocompounds followed by a standard diazotization in water and coupling) 864465-11-2 (APLUS Ethanaminum, 2-[2-12-(2-hydroxy-1-naphthalenyl)diazenyl]phenoxy]-N,N,N-trimethyl-, methyl sulfate (1:1) (CA INDEX NAME)

CM 1

CRN 864465-10-1 CMF C21 H24 N3 02

CM 2

CRN 21228-90-0

ANSWER 2 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

L7 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Me-0-S03

864465-18-9 CAPLUS Ethanaminium, 2-[2-[2-(2-hydroxy-7-methoxy-1-naphthaleny1)diazeny1]phenoxy]-N,N,-trimethyl-, chloride (1:1) (CA INDEX NAME)

$$\label{eq:Me3+N-CH2-CH2-OMe} \operatorname{Me3+N-CH2-CH2-OMe}$$
 HO OMe

● C1-

864465-19-0P
RL: OOS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(red violet dye; cationic nabhthyldiano dyes useful for non-oxidative dyeing keratin filters prepared by catalytic hydriding of nitrocompounds followed by a standard diazotization in water and coupling)
864465-19-0 (APLUS
Ethanaminium, 2-[2-[2-[y-hydroxy-3-[(bhenylamino)carbonyl]-1-nabhthalenyl]diazenyl]phenoxy]-N, N, N-trimethyl-, chloride (1:1) (CA INDEX NAME)

• C1-

REFERENCE COUNT: THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS

L7 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1984:83197 CAPLUS
100:83197 CAPLUS
100:83197, 8140a
TITLE: 100:8187a,8140a
TITLE: POLY ACT OF A CONTROL O DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3313965	A1	19831027	DE 1983-3313965	19830418
CH 653697	A5	19860115	CH 1983-2041	19830415
GB 2121814	A	19840104	GB 1983-10849	19830421
GB 2121814	В	19860508		
FR 2525620	A1	19831028	FR 1983-6682	19830422
FR 2525620	B1	19850510		
JP 58217557	A	19831217	JP 1983-70933	19830423
JP 59147053	A	19840823	TP 1983-86744	19830519
US 4670546	A	19870602	US 1984-625716	19840628
PRIORITY APPLN. INFO.:			DE 1982-3215361	A1 19820424
			DE 1983-3303869	A1 19830205
			US 1983-488136	A2 19830425
OTHER SOURCE(S): GRAPHIC IMAGE:	MARPAT	100:53197		

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

IT 88452-50-0P RL: PRBP (Prenaration) (manufacture of, as scarlet dye for paper) (Manufacture of, as scarlet dy

CM 1

CRN 88452-49-7 CMF C70 H98 N28 014 S2

L7 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

(Continued) PAGE 1-A

PAGE 1-C

CM 2

CRN 71-50-1 CMF C2 H3 02

L7 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1981:176692 CAPLUS

94:176692 CAPLUS

94:176692 CAPLUS

94:28893a,28896a

N,N-Dialkyl-N-aminoalkyl-N-(amino or nitro)phenoxy-2-phydroxy-1-propyl]-N,N-bis(3-aminopropyl)quaternary ammonium salts

Crounse, Nathan N.; Jefferies, Patrick J.

SOURCE: COPEN: USXXAM

DOCUMENT TYPE: 4

LANGUAGE: English

Patent

Description: 1982 April 2008 ACS on STN

1981:176692 CAPLUS

94:176692 CAPLUS

1981:176692 CAPLUS

1981:176692

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4206144 US 3839426 US 3784599 US 3935182 CA 940121 US 3996282 US 410302 US 410502 US 416550 US 414658 PRIORITY APPIN. INFO.:	A A A A A A A A A	19800603 19741010 19740108 19760127 19740115 19761207 19761207 19770206 19770206	US 1978-963031 US 1970-51690 US 1971-201158 US 1971-201158 US 1973-582511 US 1973-582511 US 1974-486180 US 1974-486180 US 1974-486180 US 1976-672482 US 1976-67368 US 1976-67368 US 1976-577884 US 1976-51673 US 1966-551668 US 1977-89975 US 1966-551668 US 1977-89975 US 1	19700701 19711112 19730214 19730216 19740705 19750714 19760331 19771006 A2 19660523 A2 19681121 A2 19700701 A2 19770070 A2 19770070 A2 19770706 A2 1976071 A2 19770706 A2 19770708 A2 19771008 A2 19771008 A2 19771008 A2 19771008 A3 19691021

GRAPHIC IMAGE:

$$\begin{array}{c|c} \text{MeO} & & \\ \hline & \text{CH}_2\text{NMe}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2 \\ \hline & \text{H}_2\text{N} & \\ \end{array}$$

ABSTRACT:
Title compds. are prepared for use in intermediates in the synthesis of water-soluble yellow to red azo dyes allowing high bleedfastness and bleachability on paper. Thus, quaternization of Me2N(CH2) SWHCHO [5922-69-0] with 3,4-02N(Me0)CGHSCH2C1 [6378-19-4], reduction of the resultant nitro compound [40948-28-5], and hydrolysis of the formamide group with aqueous HCl gave the dihydrochloride [77263-05-9] of I. Numerous other title compds. were

L7 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1979 422413 CAPLUS
91:22413 S1:22413 CAPLUS
91:22413 S1:22413 CAPLUS
91:22413 Az dyes from intermediate nitro- or aminobenzenes ring-substituted by a quaternized aminoalkyl or aminoalkoxy group
INVENTOR (S): PATENT ASSIGNEE(S): STORMER SURCE: USXAW
DOCUMENT TYPE: S1:224 A GOOGLE STORMER SURXAW
PATENT ASSIGNEE (S): SCHOOL STORMER SURVEY STORMER SURVEY STORMER SURVEY SURVEY STORMER SURVEY STORMER SURVEY SURV

DOCUMENT TYPE: Patent English 9

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.		DATE	APPLICATION NO.	DATE
US 4146558 US 3709903 US 3899426 GB 1335857 CA 940628 US 3784599 US 3985182 CA 940121 US 3996282 US 4105092 US 4065500 US 4206144 DRIGHTY AUPLIN INFO		19790327 19730109 19741001 19731017 19740122 19740108 19760127 19740115 19761207		19771006 19700701 19700701 19710622 19710623 19711122 19730214
US 4103092 US 4065500 US 4206144 PRIORITY APPLN. INFO.:	A A A	19780725 19771227 19800603	US 1975-595864 US 1976-672428 US 1978-963031 US 1966-551868 US 1966-551868 US 1966-777884 US 1970-51676 US 1970-51690 US 1971-201153 US 1973-332511	19750714 19760331 19781122 A2 19660523 A2 19681121 A2 19700701 A2 19700701 A2 19711122
			US 1974-486180 US 1975-595864 US 1976-672428 US 1966-531868 CA 1969-65436 US 1970-51673 US 1976-672482 US 1977-839975	A2 19740705 A2 19750714 A2 19760331 A2 19660304 A3 19691021 A2 19700701

GRAPHIC IMAGE:

ABSTRACT:
A large number of aromatic mono- and disazo dyes were prepared from nitro- or aminobenzenes containing a quaternary ammonium or hydrazinium group attached to the

L7 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) similarly preed,, and examples of their diazotization and coupling to form dyes are also described.

IT 66754-92-5P

66754-92-5F

RE: LMF (Industrial manufacture): TBM (Technical or engineered material use): PREP (Preparation): USES (Uses) (dye, manufacture of) (6754-92-6 CAPLUS 1-Propanaminium, N.-bis(3-aminopropyl)-2-hydroxy-3-[4-[[2-hydroxy-3-[[(2-methoxyphenyl)]amino]earbonyl]-1-naphthalenyl]azo]phenoxy]-N-methyl-, chloride (9CI) (CA INDEX NAME)

L7 ANSWER 5 OF 19 CAPLIS COPYRIGHT 2008 ACS on STN (Continued) benzener ring via a lower alkyl or alkoxy group: the quaternary ammonium groups were of the substituted (aminoalkyl)ammonio and [(acylamino)alkyl]ammonio type. Many of the dyes are useful for dyeing paper yellow, red, or orange shades, and show a low tendercy to bleed and a high degree of color discharge when bleached with hypochlorite or Cl. Thus, 3.4-H2N(MeO) CGHSCH2NH4CHCHECHECHECHENCHO (I) [88901-93-8] was diazotized and coupled with p-CGH4(NHCOCHECOME)2 [24731-73-5] to give II (R = CHO) [88901-94-9], a water-sol. yellow dye which bled only slightly in the water- and soar-bleed tests on paper and also was easily bleached after being applied to paper. Its hydrolysis product, II (R = H) [88901-95-0] showed essentially the same bleachability but had superior bleed resistance. The prepn. of I and many similar cationic intermediates is resistance. described.

IT 66754-92-5P
RL: PREP (Preparation)
(manufacture of, for use as paper dye)
RN 66754-92-5 (APUS)
CN 1-Propanaminium, N, N-bis(3-aminopropyl)-2-hydroxy-3-[4-[[2-hydroxy-3-[[(2-netboxyhenyl)amino]carbonyl]-1-naphthalenyl]azo]phenoxy]-N-methyl-,
chloride (9CI) (CA INDEX NAME)

L7 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1979:105604 CAPLUS
DOCUMENT NUMBER: 90:105604 CAPLUS
TITLE: 90:105604 CAPCUS
Water-soluble quaternary ammonium nonheterocyclic azo
Water-soluble quaternary ammonium nonheterocyclic azo

INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:

Water-soluble quaternary ammonium nonheterocydyes dyes Jefferies, Patrick J.; Crounse, Nathan N. Sterling Drug Inc., USA U.S., 83 pp. Cont.-in-part of U.S. 3,935,182. CODEN: USXXAM Patent English 9 DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PATENT NO. US 4103092 US 3709993 US 3709993 US 3859426 GB 1333887 CA 940628 US 3934599 US 3935182 CA 940121 US 3996282 US 4065500 US 4146558 US 4206144 PRIORITY APPLIN, INFO.:	A	19780725		19750714
US 3709903	A	19730109	US 1970-51676	19700701
US 3839426	A	19741001	US 1970-51690	19700701
GB 1333837	A	19731017	US 1970-51690 GB 1971-29451 CA 1971-116474	19710622
CA 940528	A1	19740122	CA 1971-116474	19710623
US 3784599	A	19740108	US 1971-201153	19711122
US 3935182	A	19760127	US 1973-332511	19730214
CA 940121	A2	19740115	CA 1973-163853	19730216
US 3996282	A	19761207	US 1974-486180	19740705
US 4065500	A	19771227	US 1976-672428	19760331
US 4146558	A	19790327	US 1977-839975	19771006
US 4206144	A	19800603	US 1978-963031	19781122
RIORITY APPLN. INFO.:			US 1966-551868	A2 19660523
			US 1968-777884 US 1970-51676	A2 19681121
			US 1970-51676	A2 19700701
			US 1970-51690 US 1971-201153	A2 19700701
			US 1971-201153	A2 19711122
			US 1973-332511	A2 19730214
			US 1974-486180	A2 19740705
			US 1966-531868 CA 1969-65436	A2 19660304
			CA 1969-65436	A3 19691021
			US 1970-51673	A2 19700701
			US 1975-595864	A2 19750714
			US 1976-672428	
			US 1976-672482	
			US 1977-839975	A2 19771006
PRADUTO TMACE.				

GRAPHIC IMAGE:

A large number of mono- and disazo dyes containing quaternary ammonium groups, e.g.

L7 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

40948-98-9 CAPLUS
1-Propanaminium, 3-(formylamino)-N-[2-[[4-[[2-hydroxy-3-[[(2-methoxyphenyl)amino]carbonyl]-1-naphthalenyl]azo]phenyl]amino]-2-oxoethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

 $\begin{array}{lll} 66754-92-5 & CAPLUS \\ 1-Propanaminium, N,N-bis(3-aminopropyl)-2-hydroxy-3-[4-[[2-hydroxy-3-[[(2-mydroxy-3-[1]-1-naphthalenyl]-3-phenoxy]-N-methyl-, chloride (9Cl) & CA INDEX NAME) \\ \end{array}$

L7 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) (aminoalkyl)ammonio, [(acylamino)alkyl]ammonio, and (ammonioalkyl)amino, were prepd. Many of these dyes showed good bleed resistance when used as paper dyes and were readily bleachable by hypochlorite. Thus, 3,4-EMN(MeO)COESCHEYHWEZCHEZCHEZCHEZCHO (1) [238901-30-8] was diazotized and coupled with p-CHR/MHOCHEZOMED [2 [24781-78-5] to give II (R = CHO) [58901-94-9], a water-sol. yellow dye which bled only slightly in the water and soap-bleed tests on paper and also was easily bleached after being applied to paper. Its hydrolysis product, II (R = H) [58901-95-0], showed essentially the same bleachability but had superior bleed resistance. The prepn. of II and many similar cationic arom. amino compds. is described.

• c1-

40948-96-7 CAPLUS
1-Fropanaminium, N-[2-[[4-[[3-(1H-benzimidazol-2-yl)-2-hydroxy-1-naphthalenyl]azo]phenylamino]-2-oxoethyl]-3-(formylamino)-N, N-dimethyl-, chloride 9021) (CA INDEX NAME)

L7 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

66754-94-7 CAPLUS
1-Propanaminium, 3-(formylamino)-N-[2-[[5-[[5-[[2-hydroxy-3-[[(3-ntrophenyl])amino]carbonyl]-1-naphthalenyl]axo]-2-methoxyphenyl]amino]-2-oxoethyl]-N, N-dimethyl-, chloride (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{OHC-NH- (CH2)}_{\,3} \xrightarrow{\text{N}^+} \text{CH}_2 - \text{C-NH} \\ \text{Me} \end{array} \qquad \begin{array}{c} \text{OMe} \\ \text{N} \\ \text{OH} \\ \text{OH} \\ \text{OH} \\ \text{OH} \\ \text{N} \\ \text{OH} \\ \text{N} \\ \text{OH} \\ \text{N} \\ \text{N} \\ \text{OH} \\ \text{OH} \\ \text{N} \\ \text{OH} \\ \text{O$$

• c1-

L7 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1978:512303 CAFLUS
ORLIGINAL REFERENCE NO: 89:17351a,17354a
ITILE: 80:112306 SPECIAL PATRICK SPECIAL PATR

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3996282	A	19761207	US 1974-486180	19740705
US 3709903	A	19730109	US 1970-51676	
US 3839426	Ä	19741001	US 1970-51690	
GB 1333837	A	19731017	GB 1971-29451	
CA 940528	A1	19740122	CA 1971-116474	19710623
US 3784599	A	19740108	US 1971-201153	19711122
US 3935182	Ä	19760127	US 1973-332511	19730214
CA 940121	A2	19740115	CA 1973-163853	19730216
US 4103092	A	19780725	US 1975-595864	19750714
US 4065500	A	19771227	US 1976-672428	19760331
US 4146558	A	19790327	US 1977-839975	19771006
US 4206144	A	19800603	US 1978-963031	19781122
RIORITY APPLN. INFO.:			US 1966-551868	A2 19660523
			US 1968-777884	A2 19681121
			US 1970-51676	A2 19700701
			US 1970-51690	A2 19700701
			US 1971-201153	A2 19711122
			US 1973-332511	A2 19730214
			US 1966-531868	A2 19660304
			CA 1969-65436	A3 19691021
			US 1970-51673	A2 19700701
			US 1974-486180	A2 19740705
			US 1975-595864	A2 19750714
			US 1976-672428	A2 19760331
			US 1976-672482	A2 19760331
			US 1977-839975	A2 19771006

GRAPHIC IMAGE:

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

ABSTRACT: Approx. 100 cationic water-soluble azo and disazo dyes for paper were prepared which had good bleachability and good bleed-fastness properties. The dyes were prepared by conventional azo coupling techniques and the preparation of intermediates was extensively described. Representative of the dyes prepared are: I (R = R1) [38901-94-9], II [40948-99-0], and III [66755-16-6].

40948-45-6P 40948-96-7P 66754-92-5P 66754-94-7P RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation) (preparation and spectrum of) 40948-45-6 CAPLUS

L7 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

66754-94-7 CAPLUS
1-Propanaminium, 3-(formylamino)-N-[2-[[5-[[2-hydroxy-3-[[(3-nitrophenyl)amino]carbonyl]-1-naphthalenyl]azo]-2-methoxyphenyl]amino]-2-oxoethyl]-N, N-dimethyl-, chloride (9CI) (CA INDEX NAME)

• c1-

IT

40948-98-9P
RE: NFF (Industrial manufacture); PREP (Preparation)
(preparation of)
40948-98-9 (APLUS
1-Propanaminium, 3-(formylamino)-N-[2-[[4-[[2-hydroxy-3-[[(2-methoxyphenyl)amino]carbonyl]-1-naphthalenyl]azo]phenyl]amino]-2-oxoethyl]N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

L7 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
CN 1-Propanaminium, 3-(formylamino)-N-[2-[[4-[(2-hydroxy-1-naphthaleny]) aco]phenyl]amino]-2-oxoethyl]-N, N-dimethyl-, chloride (9CI)
(CA INDEX NAME)

• c1 -

40948-96-7 CAPLUS
1-Propanaminium, N-[2-[[4-[[3-(1H-benzimidazol-2-yl)-2-hydroxy-l-naphthaleuyl]azo]phenyl]amino]-2-oxoethyl]-3-(formylamino)-N, N-dimethyl-, chloride (9CI) (CA INDEX NAME)

 $\label{eq:continuous} \begin{array}{lll} 66754-92-5 & \text{CAPLUS} \\ 1-\text{Propanaminium}, & N_{\text{Pbis}}(3-\text{aminopropyl})-2-\text{hydroxy-}3-[4-[[2-\text{hydroxy-}3-[[(2-\text{mydroxy}+3-[1]-\text{mphthalenyl}]azo]phenoxy]-N_{\text{methyl}}, \\ \text{chloride} & \text{9cI}) & (CA & \text{INDEX} & \text{NAME}) \end{array}$

L7 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L7 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1973:85910 CAPLUS
OCHIBMIN NUMBER: 75:85910 CAPLUS
ORIGINAL REFERENCE NO.: 75:13716a, 13716a
TITLB: Water-soluble quaternary ammonium salts of basic azo

Water-soluble quatidyes
Sterling Drug Inc.
Brit., 40 pp.
CODEN: BRXXAA
Patent
English
9 PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1299080	A	19721206	GB 1969-1299080	19691021
CA 940121	A2	19740115	CA 1973-163853	19730216
PRIORITY APPLN. INFO.:			US 1968-777884 A	19681121
			CA 1969-65436 A3	19691021

ABSTRACT:

ABSTRACT:

Sixty azo and disazo dves were prepared by incorporating quaternary intermediate [1, R = H, HZN: R1 = H, MeO: Y = lower alkylene, NHCOCH2, NN2CH2CH2, R2 = lower alkyl, R3 = lower alkyl, R5 = R, CH0, lower acyl, benzoyl: n = 2,5,6] or a deazo or coupling component into the dyes and they were used to dve paper bleachable, bleed-fast shades. Thus, MeZCHZCHZCHNCHO was condensed with product reduced to give diazo intermediate I(R = HZM, R1 MeO, Y = CH2, R3 = R4 Meo, R5 = CH0, n = 3) [38901-95-8] which was diazotized and coupled with p-C6H4(NHCOHZM-C)2 to give diszo dve II(R5 = CH0) [38901-94-9], which dyed paper a bleachable yellow shade with slight bleeding, Hydrolysis of II (R5 = CH0) in aqueous HC1 gave diszo dve II(R5 = B) [38901-95-0] which was significantly more bleed-fast than the unhydrolyzed dve. In another typical example, C6H4NECH2CH2NHMCH2CH2CHZMHCHO C1-was used as the coupling components with diazotized 2, 4-C1 (02N) C6H4NH2 to give azo dve (IIII) [38901-96-1].

T 40948-45-6P 40948-96-7P 40948-98-9P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)
RN 40948-45-6 CAPUIS
CN 1-Proparaminium, 3-(formylamino)-N-[2-[[4-[(2-hydroxy-1naphthaleny1)azo]pheny1]amino]-2-oxoethy1]-N, N-dimethy1-, chloride (9CI)
(CA INDEX NAME)

L7 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L7 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

• c1 -

40948-96-7 CAPLUS
1-Propanaminium, N-[2-[[4-[[3-(1H-benzimidazo1-2-y1)-2-hydroxy-1-naphthalenyl]azo]phenylamino]-2-oxoethyl]-3-(formylamino)-N, N-dimethyl-, chloride (9C1) (CA INDEX NAME)

40948-98-9 CAPLUS
1-Propanaminium, 3-(formylamino)-N-[2-[[4-[[2-hydroxy-3-[[(2-muthoxyphenyl]amino]carbonyl]-1-naphthalenyl]azo]phenyl]amino]-2-oxoethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

L7 ANSWER 9 0F 19 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 15069:422903 CAPLUS
ORIGINAL REFERENCE NO: 71:4247a, 4250a
TITLE: Water-soluble monoazo dyes
Water-soluble monoazo dyes
Gmaj, Jan; Scibisz, Halina
Instytut Przemyslu Organicznego
SOURCE: 901 4 2m. 901 TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

Pol., 4 pp. CODEN: POXXA7 Patent Polish

DOCUMENT TYPE: P.
LANGUAGE: P.
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

PL 54588

ABSTRACT:
The title compds. (I) are yellow to red dyes for polyacrylonitrile fibers.
Thus, 4.4 parts 4-HENC6H40CH2CHENMe6*+ MeSO4- was diazotized and coupled with 2.65 parts 1-phenyl-3-methyl-5-pyrazolone (II) and salted with NaCl to give I (R = Me, 0H = II), a yellow dye for polyacrylonitrile fibers; in 90% yield. Similarly, other I were prepared (diazo component, 0H, % yield, and shade given): 4-HENC6H40CH2CHENMe612+ PhSO3-, 2-C10H70H, 96, crange; x,2-C1 (HEN)CGH30CH2CHENMe612+ MeSO4-, 2, 4-dihydroxyquinoline, 92, yellow; 4, 3-HEN(0EN)CGH30CH2CHENMe6 34 MeSO4-, 3, 2-HOC10H6CONHPh, 96, red.
4, 3-HEN(0EN)CGH30CH2CHENMe6 34 MeSO4-, 3, 2-HOC10H6CHNHPh, 96, red.
4-(B-morpholineothoxy) aniline diazotized and coupled with 3-AcNHCGHN(CH2CH20H2) gave a red dye in 80% yield (austernizing agent not specified). 4, 2-Pr (HEN)CH6SHOCHECHENMe6 2diazotized and coupled with PhNMe2 and the product treated with PhSOSMe gave an orange dye.

IT 29472-92-6P 29472-94-8P
RL: MMF (Industrial manufacture); PREP (Preparation)
(preparation of)
RN 29472-92-6 (APUIS
CN Ammonium, [2-[p-[(2-hydroxy-1-naphthy1)azo]phenoxy]ethy1]trimethy1-,
benzenesulfonate (GCI) (CA INDEX NAME)

CM 1

CRN 47488-90-4 CMF C21 H24 N3 02

CM 2

CRN 3198-32-1 CMF C6 H5 03 S

L7 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

23472-94-8 CAPLUS Ammonium, [2-[4-[(2-hydroxy-3-(phenylcarbamoyl)-1-naphthy1]azo]-3-nitrophenoxy]ethy1]trimethy1-, methy1 sulfate (salt) (8CI) (CA INDEX

CM 1

CRN 47799-87-1 CMF C28 H28 N5 05

2 CM

CRN 21228-90-0 CMF C H3 04 S

Me-0-S03-

ANSWER 10 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) Armonium, [2-[N-ethyl-p-[(2-hydroxy-f-[(2-hydroxyethyl) sulfamoyl]-1-naphthyl] azolanilinojethyl] timethyl-, chloride (8CI) (CA INDEX NAME)

L7 ANSWER 10 0F 19 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1966:105009 CAPLUS
DOCUMENT NUMBER: 64:105009

R016INAL REFERENCE NO. 64:19842h, 19843a-b
TITLE: Cationic azo dyes
INVENTOR(S): Yamatani, Watarui Inoue, Shozo
Mitsubishi Chemical Industries Co., Ltd. SOURCE: 5 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

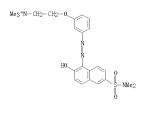
PATENT NO KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

PF 41002181 B4 19660215 JP 19650806

PRIORITY APPIN. INFO:
GRAPHIC IMAGE:
ABSTRACT:
Manufacture of I, which dye acrylonitrile fibers red to orange shades, was described. Thus, 10 parts 3-[2,4-Mc HENNOCHENNIN] CHHANMES+X is diazotized and coupled with 11.2 parts 2,6-HOC10HESO2N (CH2CH20H)2 to give I (RI = R2 = CH2CH20H, RS = Me). Amaximum 508 ms, red on polyacrytonitrile.
Similarly are prepared the following red I (RI, R2, R3, and Amaximum in ms given): H, Me, 506; H, Me, Me, 869; Me, CH2(CHB)4CH2CH2Me3+BF - 2,6-HOC10H6SO2NMCH2CH20H, H, 558. Also prepared are 3-H2NCH40CH2CH2Me3+BF - 2,6-HOC10H6SO2NMCH2CH20H which dye polyacrytonitrile fiber yellowish orange and dark red, resp.

| T SB15-87-2, Ammonium, [2-[m-[[6-(dimethy]sulfamoy]]-2-hydroxy-1-naphthy]]and phenoxy]ethy]!rimethy], bromide SB15-88-3, Ammonium [2-[N-ethy]-r-[[2-hydroxy-6-[(2-hydroxyethy])sulfamoy]]-1-naphthy]]and anilino]ethy]!rimethy], chloride (spectrum off) SB15-87-2 (APLIS C) Ammonium, [2-[m-[[6-(dimethy]sulfamoy]]-2-hydroxy-1-naphthy]]azo]phenoxy]ethy]!rimethy]-, bromide (SCI) (CA INDEX NAME)



• Br

RN 5815-88-3 CAPLUS

L7 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1965:499109 CAFLUS
ORIGINAL REFRENCE NO. 63:93109
ORIGINAL REFRENCE NO. 63:18314e-g
TITLE: Fiber-reactive dyes
PATENT ASSIGNEE(S): 13 pp.
PATENT TYPE: LANGUAGE: 12 patent
LANGUAGE: Patent Unavailable
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

RE 1370454 19640821 FR

PRIORITY APPLN. INFO: DE 19621003

GRAPHIC IMAGE: For diagram(s), see printed CA Issue. 19621003

GRAPHIC IMAGE: For diagram(s), see printed CA Issue. 19621003

GRAPHIC IMAGE: A recommendation of P-quaternary aninoethylsulfonyl residues. I are prepared by coupling diazotized aniline derivs. (II) containing the sulfonyl residue with a variety of coupling components. II are prepared by Raney Ni catalytic hydrogenation of the corresponding nitro compds. Thus, 287 parts P-CANCHEN MOS 5002CH2CHANGE in 1000 parts Etdle is reduced with H at 30 atmospheric and at 20-30° in the presence of 40 parts Raney Ni to give 240 parts 4-EMCNCHEN MOS 5002CH2CHANGE (III) no 127-8° (Bodf). III diazotized and compled with 3, 6, 1-(HOSS)2CHOBSOH (IV) gives an azo dye, scarlet on cotton. Also prepared are [p-HONGHANGEN MESOCH CHANGEN MES

IT 3739-50-2P, Ammonium [2-[[p-[(1-bydroxy-3,6-disulfo-2-naphthyl) asolphenyl]nethylsulfamoyl]ethylltrimethyl, methyl sulfate 3740-67-8P, Ammonium [2-[[m-[(1-bydroxy-3,6-disulfo-2-naphthyl) asolphenyl]nethylsulfamoyl]ethyl]trimethyl, methyl sulfate RI: PREF (Preparation of preparation of ST03-60-2 CAPLE)

RN 3739-50-2 CAPLE

CN Sthanaminium, 2-[[(4-[(1-bydroxy-3,6-disulfo-2-naphthalenyl)asolphenyl]methylamino]sulfonyl]-N,N,N-trimethyl-, methyl sulfate (salt) (GCI) (CA INDEX NAME)

CM 1

CRN 50568-41-7 CMF C22 H27 N4 09 S3

$$\begin{array}{c|c} \text{HO}_3\text{S} & \text{SO}_3\text{H} \\ & \text{N} & \text{N} & \text{N} \\ & \text{O} & \text{S} - \text{CH}_2 - \text{CH}_2 - \text{N} + \text{Me} \end{array}$$

CM 2

CRN 21228-90-0

L7 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

Me-0-S03

 $3740-67-8 \quad CAPLUS \\ Ethanaminium, & 2-[[[3-[(1-hvdroxy-3,6-disulfo-2-naphthalenyl)azo]phenyl]methylamino]sulfonyl]-N,N,N-trimethyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)$

CM 1

CRN 50568-40-6 CMF C22 H27 N4 09 S3

CM 2

CRN 21228-90-0 CMF C H3 04 S

Me-0-S03

L7 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

Me-0-S03-

 $\begin{array}{lll} 3740-67-8 & CAPLUS \\ Ethanaminium, & 2-[[[3-[(1-hydroxy-3,6-disulfo-2-naphthalenyl)azo]phenyl]methylamino]sulfonyl]-N, N, N-trimethyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME) \\ \end{array}$

CRN 50568-40-6 CMF C22 H27 N4 09 S3

S—СН2—СН2—N+Ме3

CM 2

CRN 21228-90-0 CMF C H3 04 S

Me-0-S03-

L7 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1965:489496 CAPLUS
ORIGINAL REPRENCE NO: 63:18507f-g
AZO dyes containing N-methylsulfonamido groups
PATENT ASSIGNEE(S): 2000 ACS on STN
1965:489496 CAPLUS
63:86496
63:18507f-g
AZO dyes containing N-methylsulfonamido groups
PATENT ASSIGNEE(S): 28 pp.
Patent Unavailable
PATENT INFORMATION:

KIND DATE APP 19640403 BE PATENT NO APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

BE 638177

PRIORITY APPLN. INFO.: 19640403 BE 19621003

GRAPHIC DMAGE: For diagram(s), see printed CA Issue. 19621003

GRAPHIC DMAGE: For diagram(s), see printed CA Issue. 19621003

ASSTRACT: Compds. of the general formula I are prepared and give fast dyeings on cotton, viscose, polyamides, and aromatic polyesters. Thus, 287 parts p-0326HANMeSOCCHELENMe2 in 1000 parts alc. is hydrogenated at 20-30° and 30 atmospheric in the presence of 40 parts Raney Ni to give 240 parts pHENOGHANMESOCCHELENMe2, m. 92-3° (Buff). Similarly prepared is m-MENOGHANMESOCCHELENMe2, m. 92-3° (Buff). Il (26 parts) in 160 parts H20 is diazotized and coupled with 56 parts 3, 6, 1-GHOSS) 2010H50H to give I (X = H, Y = NMeSOCCHELENHEA). The proper or octton given! NMeSOCCHELENHEA, H, red powder, color of aqueous solution, and color on cotton given! NMeSOCCHELENHEA, H, red powder, red-orange, reddish orange; H, NMeSO2CHECHEAHHEA MeSO4-, ark powder, --, SMMeSO2CHECHEAHHEA MeSO4-, H, dark powder, orange-red, reddish orange; H, NMeSO2CHECHEAHHEA MeSO4-, H, 1 T 3739-16-02-2 Automatium, [2-[Ep-[(1-hydroxy-3.6-disulfo-2-

IT 3739-50-29, Amonium [2-[[p-[(1-hydroxy-3,6-disulfo-2-naphthyl) azolphenyl]methylsulfamoyl]ethyl]trimethyl, methyl sulfate 3740-6798, Amonium [2-[[m-[(1-hydroxy-3,6-disulfo-2-naphthyl) azolphenyl]methylsulfamoyl]ethyl]trimethyl, methyl sulfate [3-2-naphthyl] trimethyl, methyl sulfate [3-2-naphthyl] trimethyl, methyl sulfate [3-2-naphthalmyl] trimethyl, methyl sulfate [3-2-naphthalmyl] trimethyl, methyl sulfate [3-2-naphthalmyl] trimethyl]methyl]methylmino]sulfonyl]-N, N, N-trimethyl-, methyl sulfate (salt) [9CI) (CA INDEX NAME)

CRN 50568-41-7 CMF C22 H27 N4 09 S3

$$\begin{array}{c} \text{HO}_3\text{S} \\ \text{OH} \\ \text{N} \\ \text{N} \\ \text{N} \\ \text{N} \\ \text{N} \\ \text{Me} \\ \text{O} \\ \text{S} \\ \text{CH}_2 \\ \text{CH}_2 \\ \text{N}^+\text{Me} \\ \text{O} \\ \text{S} \\ \text{CH}_2 \\ \text{N} \\ \text{Me} \\ \text{N} \\ \text{Me} \\ \text{N} \\ \text{N} \\ \text{Me} \\ \text{N} \\ \text{$$

L7 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1965:487522 CAPLUS
G3:87522 CAPLUS
G3:87522
TITLE: 1688-FERNCE NO. 83:16057g-h
Regular character of hydrocarbon transformation in earth
AUTHOR (S): Nikonov, V. F.
G0FORATE SOURCE: G0-1. 40min., Tyumen
G0-1. 40min., Tyumen
G0-1. 40min., Tyumen
G0-1. 60-fiz., Akad. Sank SSSR, Sibirsk. Otd.
(1965), (6), 117-18
JOURNAL BUSSIAN
BUS

Russian

LANGUAGE: ABSTRACT:

ABSTRACT:
Recalcn. of the average composition of natural gases from the Paleozoic, Mesozoic, and Cenozoic formations showed that the composition of the gases depends more on the depth of deposit than on the age, lithologic composition, and geochem. properties of reservoir rock. With increased dethot of gas deposit, the number of pools, containing no heavy hydrocarbons, decreases sharply. No deposit without heavy hydrocarbons, decreases sharply. No deposit without heavy hydrocarbons was detected at the depth of 2000 m. In the same direction, i.e. with increased depth, the total content of COCS, the d. of the natural gas, and the C2:C3 and C3:C4 ratios also increased.

3739-50-2

Derived from data in the 7th Collective Formula Index (1962-1966))
3739-50-2

CAPLIS

Sthanaminium, 2-[[[4-[(]-hydroxy-3, 6-disulfo-2-naphthaleny1) azolphenyl]methylaminojsulfonyl]-N, N, N-trimethyl-, methyl sulfate (salt) (9CI)

(CA INDEX NAME)

CM 1

CRN 50568-41-7 CMF C22 H27 N4 09 S3

HO3S 0-S-CH2-CH2-N+Me3

CM 2

CRN 21228-90-0 CMF C H3 04 S

Me-0-S03-

Page 19 10/584, 955

L7 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1965:15643 CAPLUS
ORIGINAL REPRENCE NO. 62:2852A, 2853a-b
TITLE: 62:2852A, 2853a-b
Azo dyes
PATENT ASSIGNEE(S): 20 pp.
POCUMENT TYPE: LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO APPLICATION NO. KIND DATE DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

NL 298761 19640611 NL
PRIORITY APPIN. INFO: DE 19621003
ABSTRACT:
Present the general formula RN:NANMeSO2CH2CH2MNe2 or RN: NANMeSO2CH2Z+ X-, where R is 1,3,6,2+H0(H00SS)2C10H4, A is m or p-C6H4, Z+ is Me3N+ or 1-pyrtidinium, and X- is Me5O4- or RSO4, are prepared They give wash- and lightfast shades on cotton. Thus, 20 narts 4-H2NCGH4NMeSO2CH2NMe2 [m. 127-8° (Me0H)] was diazotized and coupled with 56 parts 558
1,3,6-H0C10H5(S0SH)2 (I) to give a red powder dyeing scarlet shades. Similarly, other dyes were prepared from I (ano component and shade of dye given): 4-H2NCGH4NMeSO2CH2ZH2N-Me3 MeSO4-HC1 [m. 177" (MeOH-AcOEt)], scarlet; 3-H2NCGH4NMeSO2CH2ZH2N-Me3 MeSO4-, reddish orange; 4-H2NCGH4NMeSO2CH2ZH2N-Me3 MeSO4-, reddish orange; 4-H2NCGH4NMeSO2CH2ZH2N-Me3 MeSO4-, reddish orange; 4-H2NCGH4NMeSO2CH2ZH2N-Me3 MeSO4-, reddish orange; 4-H2NCGH4NMeSO2CH2ZH2NHeSOBECH2NLES MeSO4-, reddish orange; 4-H2NCGH4NMeSO2CH2ZH2NHeSOBECH2NLES MeSO4-, reddish orange; 4-H2NCGH4NMeSO2CH2ZH2NHESOBECH2NLES MeSO4-, reddish orange; 4-H2NCGH4NMeSO2CH2ZH2NHESOBECH2NLES MESO4-, reddish orange; 4-H2NCGH4NMeSO2CH2ZH2NLES MeSO4-, reddish orange; 4-H2NCGH4NMeSOCCH2ZH2NLES MESO4-, reddish orange; 4-H2NCGH4NMeSOCCH2ZH2NL

II 1262-06-2P, Ammonium [2-[[p-[(1-hydroxy-3,6-disulfo-2-naphthyl)azolphenyl]methylsulfamoyl]ethylltrimethyl, hydroxide, inner salt 3785-57-5P, Ammonium, [2-[[m-[(1-hydroxy-3,6-disulfo-2-naphthyl)azolphenyl]methylsulfamoyl]ethyl]trimethyl, hydroxide, inner salt KL: PRBP (Preparation)
(preparation of)
RN 1262-06-2 CAPLUS
(N Ammonium [2-[[p-[(1-hydroxy-3,6-disulfo-2-naphthyl)azolphenyl]methylsulfamoyl]ethyl]trimethyl-, [2-[[p-[(1-hydroxy-3,6-disulfo-2-naphthyl)azolphenyl]methylsulfamoyl]ethyl]trimethyl-, [2-[[p-[(1-hydroxy-3,6-disulfo-2-naphthyl)azolphenyl]methylsulfamoyl]ethyl]trimethyl-, hydroxide, inner salt (SCI) (CA INDEX NAME)

H03S S03 - N N N Me
$$0 = S - CH_2 - CH_2 - N^+Me3$$

 $\begin{array}{lll} 3755-57-5 & CAPLUS \\ Ammonium, & [2-[[m-[(1-hydroxy-3,6-disulfo-2-naphthy1)azo]phenyl]methylsulfamoyl]ethyl]trimethyl-, hydroxide, inner salt (8CI) & (CA INDEX NAME) \\ \end{array}$

L7 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2008 ACS ON STN ACCESSION NUMBER: 1964:83356 CAPLUS DOCUMENT NUMBER: 60:8356 ORIGINAL REFERENCE NO.: 60:14641f-g TITLE: INVENTOR(S): Azo dyes Matsui, Hirotsugu

SOURCE: 6 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
PAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

ralent NU. KIND DATE APPLICATION NO. DATE

PRIORITY APPLN. INFO.: 19610519

ASSTRACT:
Azo dves containing an Et2NCH2CH(0H) CH2O group are prepared Thus, 2.4 parts
3-Et2NCH2CH(0H) CH2OC6H4NH2 (I) is diazotized and coupled with 1.2 parts PhNNe2
to give a dve which dyes polyacrylonitrile fibers (II) yellowish orange shades
from a boiling acid bath. Also prepared are the following aco dyes (shade on II
given): I - Naphthol-AS-TTR. red; 2,4-Meo(OCN) CGH3NH2 (III) - I,
reddish orange: [(III - I) - PhNNe2] (IV), dark violet. IV and
Me2SO4 gives the Quaternary ammonium salt (V), dark violet on II. V is also
prepared by methylating III with Me2SO4 followed by diazotizing and coupling with
I.

IT 90229-23-5 (Derived from data in the 7th Collective Formula Index (1962-1966))
RN 90229-23-5 CAPLUS
CN Diethyl[2-hydroxy-3-[m-[[2-hydroxy-3-(phenylcarbamoyl)-1- nghthyl]azo]phenoxy]propyl]methylamnonium methyl sulfate (7CI) (CA INDEX NAME)

CM 1

CRN 90229-22-4 CMF C31 H35 N4 04

CM 2

CRN 21228-90-0 CMF C H3 04 S

L7 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

H03S
$$\sim$$
 S03 \sim N \sim

L7 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Me-0-S03

106194-19-8P, Ammonium, [3-[m-[[3-[(4-chloro-2,5-dimethoxyphenyl)carbamoyl]-2-hydroxy-l-haphthyl]azo]phenoxy]-2-hydroxypropyl]diethylmethyl, methyl sulfate
KE: PREP (Preparation)
(preparation of)
106194-19-8 CAPLUS
[3-[m-[[3-[(4-chloro-2,5-dimethoxyphenyl)carbamoyl]-2-hydroxy-l-naphthyl]azo]phenoxy]-2-hydroxypropyl]diethylmethylammonium methyl sulfate
(7CI) (CA INDEX NAME)

CRN 106194-18-7 CMF C33 H38 C1 N4 06

CM 2

CRN 21228-90-0 CMF C H3 04 S

Me-0-503-

CRN 90229-22-4 CMF C31 H35 N4 04

CM 2

L7 ANSWER 17 OF 19 CAPLIS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1962:450117 CAPLIS
FORGINAL REFERENCE NO: 57:50691, 6070a-5
AUTHOR(S): Azo dves containing K12CH OH) CHENNE groups
AUTHOR(S): Matsui, I. Koji; Sunaga, Toshio; Kasai, Kazuo
GOMEN TYPE: Junal
LANGUAGE: Unavailable
ABSTRACT: Reaction of epichlorohydrin followed by Et2NH on PhNH2 and 1-naphthylamine gave
56.66% PhNHCEC CHOH) CHENNE2 (I) (b2 154-5°) and 65.5%
1-ClOHFTMEEDGHOH) CHENNE2 (II) (b2 210°), resp. Also, the reaction of
epichlorohydrin on m-AcNHC6H40H followed by reaction with NHE12 and hydrolysis
of the product gave 49.5% m-HENC6H40CHECHGOHCHENE2 (III) (b2 20°), resp. Also,
m. 33-5°. Azo dves were synthesized by use of I and II, resp., as
coupling components, and various aromatic primary amines having no CO2H and
SO3H groups, such as p-O2NC6H40H12, p-H2NcO2C6H40H2, and others, as diazo
components. A monozao dves were repeared by using III as diazo component, and
PhNM62, 2-naphthol, naphthol AS, and 3-methyl-1-phenyl-5-pyrazolone as coupling
components. A monozao dves were prepared by using III as diazo component
and Fast Red B base as diazo component: further diazotation of this dye and
coupling with PhNM62, handthol AS, etc. gave diazo dves. The dves thus
obtained are soluble in dilute Ac0H, and have good dyeing affinity for Orlon type
polyacrylontrile fiber, e.g. Exlan I, Vonnel W, and Casimilon, with color
ranges of yellow-orange-red-brown-purple. The quaternary ammonium salts of
these dyes also exhibited similar properties.

IT 107307-00-59, Ammonium, [3-[m-[3-[6-chloro-2, 4dimethoxyphenyl) carbamoyl]-2-hydroxy-1nabhthyl asol phemoxyl-2-hydroxy-1nabhthyl asol bemoxyl-2-hydroxy-1nabhthyl asol bemoxyl-2-hydroxy-1nabhthyl asol bemoxyl-2-hydroxy-1nabhthyl asol bemoxyl-2-hydroxy-1nabhthyl asol bemoxyl-2-hydroxy-1nabhthyl asol bemoxyl-2-hydroxy-1nabhthyl asol bemoxyl-2-hydroxy-1nabhtyl asol bemoxyl-2-hydroxy-1nabhtyl asol bemoxyl-2-hydroxy-1nabhtyl asol bemoxyl-2-dydroxy-1nabhtyl asol bemoxyl-2-dydroxy-1nabhtyl a

L7 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN Et-N+ CH2-CH-CH2-CM 2 CRN 21228-90-0 CMF C H3 04 S Me-0-S03-ANSWER 17 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) CRN 21228-90-0 (CONTINUED) CHE OF 45 O4 S Me-0-S03

L7 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1962:430115 CAPLUS
DOCUMENT NUMBER: 57:30115
ORIGINAL REPRENCE NO: 57:6670g
TITLE: Printing blankets
HYVENTOR(S): PATENT ASSIGNEE(S): Dayco Corp. SOURCE: 2 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
PAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 3033709 19620508 US 1959-850997 19591105

US 906746 GB US 1959-850997 19591105

RE 906746 US 19591105

ASSTRACT:
Improved release properties of printing blankets were obtained by the addition of 2.5-5 parts of nolyethylene powder based on 100 parts by weight polymer to the face or ink-receiving surface layer.

90229-23-5 107807-09-5

(Derived from data in the 7th Collective Formula Index (1962-1966))
90229-23-5 CAPLUS
Diethyl[2-hydroxy-3-[m-[[2-hydroxy-3-(pheny]carbamoy])-1naphthyl]azo]phenoxy]propyl]methylammonium methyl sulfate (7CI) (CA INDEX NAME)

CM 1

CRN 90229-22-4 CMF C31 H35 N4 04

CM 2

CRN 21228-90-0 CMF C H3 04 S

L7 ANSWER 19 OF 19 CAPLIS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 15962:430:14 CAPLIS
DOCUMENT NUMBER: 57:30:114
ORIGINAL REFERENCE NO: 57:60:70d-jue pigment
TITLE: Prussian blue pigment
HVENTOR(S): Prussian blue pigment
HVENTOR(S): Standard Ultramarine & Color Co.
STORCE: 5 pp. ORIGINAL KEPENDENCE NO. 577-007001 & PRUSSIAN DI INVENTOR (S): 1 SOURCE: 500CUMENT TYPE: LANGUAGE: 4 University 1 Country 1 PATENT INFORMATION: 1 PATENT INFORMATION: 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

US 3021191

FRIORITY APPIN. INFO::

US 1958-740578

19580608

ABSTRACT:
A Prussian blue pigment of improved color strength was produced without air drying or grinding by using EBO2 as oxidant. Thus, Na4Fe(CN)6.10H20 134.2 and (NH4)2504 18.3 were dissolved in H20 2500 parts at 30° a Solution of Fe504.7H20 103.2 and 93% H2-504 18.3 in H20 1250 parts at 30° was stirred in over 30 min. The resultant white precipitate was diluted with H20 at 35° to three times its volume, and settled for 48 hrs. The supernatant liquor was decanted, a solution of N42CL070 3.3 in a small amount of H20.5 stirred 2 hrs., treated with a solution of Na2CL070 3.3 in a small amount of H20. stirred 2 hrs., treated with a solution of Na2CL070 3.3 in a small amount of H20. stirred 2 hrs., treated with a solution of Na2CL070 3.3 in a small amount of H20. stirred 2 hrs., treated with a solution of Na2CL070 3.5 in a small amount of H20. stirred 2 hrs., treated to an ink which, siurried in H20 treated with 160 parts of 35% H202 per 1000 parts of pigment, and agitated 15 min. before filtering. The cake was converted to an ink which, when tested against dry ground ink made from air-oxidized, dried nigment, tested 3-48 strong and red in shade. When compared with filsed 1-stage dichromate-oxidized ink, it was 106% strong and red in shade. The flushed and tinted product from the E02C-oxidized pigment was readily dispersible and free from grit and pigment agglomerates.

IT 90229-23-5 107307-09-5
(Derived from data in the 7th Collective Formula Index (1962-1966))
RN 90229-33-5 CAPLUS
ON Diethyl[2-hydroxy-3-[m-[[2-hydroxy-3-(phenylcarbamoy1)-1aphthyl]azo]phenoxy]propyl]methylammonium methyl sulfate (7CI) (CA INDEX NAME)

CM 1

CRN 90229-22-4 CMF C31 H35 N4 04

L7 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN Me-0-S03

107307-09-5 CAPLUS [3-[im-[13-([6-Chloro-2, 4-dimethoxypheny1]carbamoy1]-2-hydroxy-1-naphthyl]azolphenoxy]-2-hydroxypropyl]diethylmethylammonium methyl sulfate (7CI) (CA INDEX NAME)

CM 1

CRN 107307-08-4 CMF C33 H38 C1 N4 06

CM 2

Me-0-S03

L7 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

CRN 21228-90-0 CMF C H3 04 S

Me-0-S03-

 $\label{eq:condition} 107307-09-5 \quad CAPLUS \\ [3-[m-[(3-[(5-Chloro-2, 4-dimethoxypheny]) carbamoyl]-2-hydroxy-1-nabhthyl]azo] phenoxyl]-2-hydroxypropyl]diethylmethylammonium methyl sulfate (7Cl) (CA INDEX NAME)$

CM 1

CRN 107307-08-4 CMF C33 H38 C1 N4 06

CM 2

Me-0-S03-

=> => d que	113	stat		
L8	26	SEA FILE=CAPLUS ABB=ON	PLU=ON	("GOETTEL OTTO"/AU OR "GOETTEL
		OTTO RICHARD"/AU)		
L9	4	SEA FILE=CAPLUS ABB=ON	PLU=ON	"GOTTEL OTTO"/AU
L10	12	SEA FILE=CAPLUS ABB=ON	PLU=0N	"HAYOZ ANDRE"/AU
L11	146	SEA FILE=CAPLUS ABB=ON	PLU=ON	"BRAUN HANS JUERGEN"/AU
L12	164	SEA FILE=CAPLUS ABB=ON	PLU=ON	L8 OR L9 OR L10 OR L11
L13	5	SEA FILE=CAPLUS ABB=ON	PLU=ON	L12 AND CATIONIC AND NAPHTH?

 \Rightarrow d 1-5 bib abs

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ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:1038111 CAPLUS
DN 145:882945
TI Reductive coloring system for keratin fibers comprising a carbonyl compound and noxime ester
N Section of the artner of the a
PATENT NO.
                                                                                                                                                                                                                                                                     KIND DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DATE
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L13 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) redn. of 34 g N,N,N-trimethyl-2-(2-nitrophenoxy)ethanaminium methylsulfate with H2 (pressure 9 bar) in the presence of Pd/C catalyst followed by a std. diazotization in water with NaMO2 and sulfamic acid and coupling with a soln. of 2-naphthol in i-Pt-OH was used in a compn. for dyeing hair coning. 4.0 g of decyl glucoside, 5.0 g of ethanol and 0.0025 mol of this dye in 100 g of water at pH 7.

RE.CNT 4 THERE ARE 4 CITED REPRENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 AN DN TI IN PA SO DT LA FAN.	ANSWER 2 OF 5 CAPL 2005:1004830 CAPLU 143:287907 Cationic naphthyldi fibers containing Goettel, Otto: May Wella Aktiengesells PCI Int. Appl., 48 CODEN: PIXXXX Patent TIXXXX	S azo dyes and col aid compounds. z, Andre; Braun, chaft, Germany		DATE
PI	W0 2005085362 W: AE, AG, AL, CN, CO, CR, GH, GM, HR, LR, LS, LT, NZ, OM, PG, TM, TN, TR, RW: BW, GH, GM, AZ, BY, KG, EE, ES, FI, RO, SE, SI, DE 102004010999 EP 1740667	A1 20050915 AM, AT, AU, AZ, CU, CZ, DK, DM, HU, ID, IL, IN, LU, LV, MA, MD, PH, PL, PT, RO, TT, TZ, UA, UG, KE, LS, MW, MZ, KZ, MD, RU, TJ, FR, GB, GR, HU, SK, TR, BF, BJ, TD, TG A1 20070110	₩0 2004-EF14189 BA, BB, BG, BR, BW, BY, DZ, BC, EB, EB, ES, F1, IS, IP, KB, KG, KP, KR, MG, MK, MA, MW, MX, MZ, MZ, KU, SC, SD, SE, SG, SK, US, UZ, VC, VN, YU, ZA, NA, SD, SL, SZ, TZ, UG, TM, AT, BB, BG, CH, CY, IE, IS, IT, LT, LU, MC, CF, CG, CI, CM, GA, GA, DE 2004-102004010999	20041213 BZ, CA, CH, GB, GD, GE, KZ, LC, LK, NA, NI, NO, SL, SY, TJ, ZM, ZW ZM, ZW, AM, CZ, DE, DK, NL, PL, PT, GQ, GW, ML,
PRAI OS GI	EP 1740657 R: AT, BE, BG, IS, IT, LI, BR 2004018613 AT 373051 JP 2007527457 ES 2294565 US 20080167453	B1 20070912 CH, CY, CZ, DE, LT, LU, MC, NL, A 20070502 T 20070915 T 20070927 T3 20080401 A1 20080710	DK, EE, ES, FI, FR, GB, PL, PT, R0, SE, SI, SK, BR 2004-18613 AT 2004-803818 JP 2007-501128 BS 2004-803818 US 2006-584955	GR, HU, IE, TR 20041213 20041213 20041213 20041213 20060630
	OC2H4NMe3		OC ₂ H ₄ MMe ₃	

AB Cationic naphthyldiazo dyes such as, an example I or II useful for non-oxidative dyeing keratin fibers, especially hair are prepared by catalytic hydriding of nitrocompounds followed by a standard diazotization in water and coupling with 1- or 2-naphthols. Thus, I prepared by

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L13 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:828779 CAPLUS
DN 143:231887
I Neutral and cationic naphthalene derivatives and dyes
containing said compounds for dyeing keratin fibers.
N Speckbacher, Markus: Braum, Hans-Juergen: Chassot, Jessica
PA Wella Aktiengesellschaft, Germany
S PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN. CNT 1
PATENT NO. KIND DATE APPLICATION NO.
DATE
   oxidizing agents specially mush had been been been been as a coxidizing agents.

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE PORMAT
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AB The invention relates to the lightening cationic naphthalene dyestuffs of formula (I), and to dyes for keratin fibers, especially human hair, containing said compds. The compns. further contain natural or synthetic polymers, or modified natural polymers. Thus 4-(E0-(1.8-dixox-2.8-dihydro-IH-benzo(del isoquinoline-G-V)) iminomethyl]-1-(2-bydroxyethyl)pyridinium bromide was synthesized in two steps starting from 4-amino-naphthalene-1,8-dicarboxylic acid and 4-pyridine carboxaldehyde. The product was included as a 2.5 mmol component in a

L13 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) direct hair dye that further contained (g): ethanol 5; decylpolyglucose 4.0: EDTA disodium sait hydrate 0.2; water to 100. RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his full

I 13

(FILE 'HOME' ENTERED AT 10:10:22 ON 11 AUG 2008)

5 SEA ARR=ON PLU=ON

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FILE 'REGISTRY' ENTERED AT 10:11:17 ON 11 AUG 2008
L1
                STRUCTURE UPLOADED
L2
                STRUCTURE UPLOADED
L3
              O SEA SSS SAM L1 OR L2
L4
             55 SEA SSS FUL L1 OR L2
                D QUE L4 STAT
             29 SEA ABB=ON PLU=ON L4 AND CAPLUS/LC
L5
             26 SEA ABB=ON PLU=ON L4 NOT L5
L6
                D 1-26 IDE CAN
     FILE 'CAPLUS' ENTERED AT 10:14:00 ON 11 AUG 2008
             19 SEA ABB=ON PLU=ON L4
L7
                D 1-19 IBIB IABS HITSTR
                E GOETTEL OTTO/AU
             26 SEA ABB=ON PLU=ON ("GOETTEL OTTO"/AU OR "GOETTEL OTTO
L8
                RICHARD"/AU)
                E GOTTEL OTTO/AU
              4 SEA ABB=ON PLU=ON "GOTTEL OTTO"/AU
L9
                E HAYOZ ANDRE/AU
L10
             12 SEA ABB=ON PLU=ON
                                    "HAYOZ ANDRE"/AU
                E BRAUN HANS/AU
            146 SEA ABB=ON PLU=ON
                                    "BRAUN HANS JUERGEN"/AU
L11
L12
            164 SEA ABB=ON PLU=ON
                                    L8 OR L9 OR L10 OR L11
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